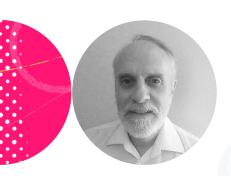
# The Façade Pattern



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Access a database

Get employee records

Ask DBA which database to use

Import the right Python modules

Instantiate a control object

**Build a connection string** 

Connect to the database

Run a query and process the results

Close the connection

#### **Demo**



Retrieve and print employee records

Use free AdventureWorks database

### **Façade**

**Classification: Structural** 

Unified interface to a set of interfaces

**Higher-level interface** 

Makes the set of interfaces easier to use

Reduces complexity

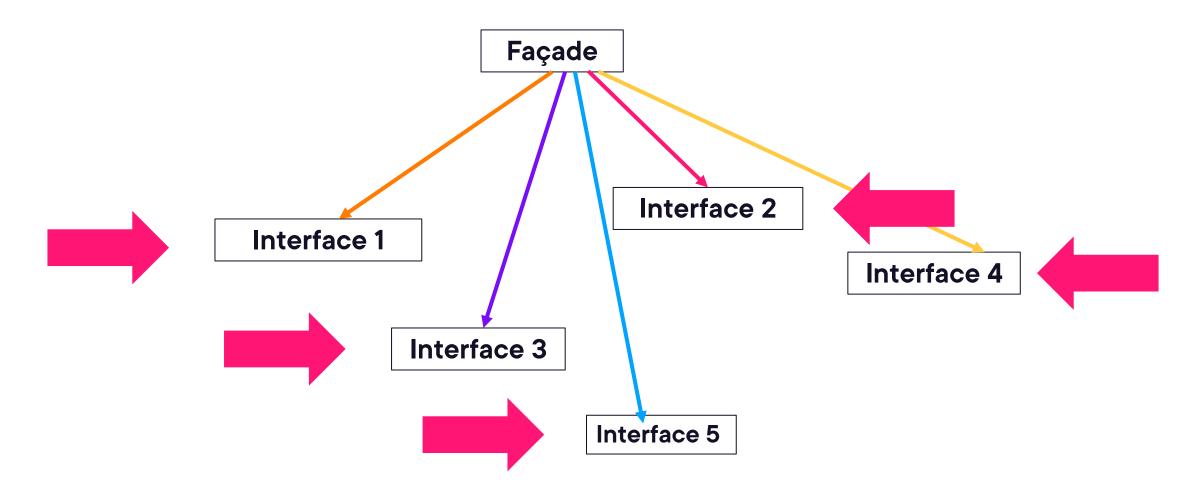
**Example has five interfaces:** 

- connect, cursor, execute, commit and close

Implementing façade will result in just one

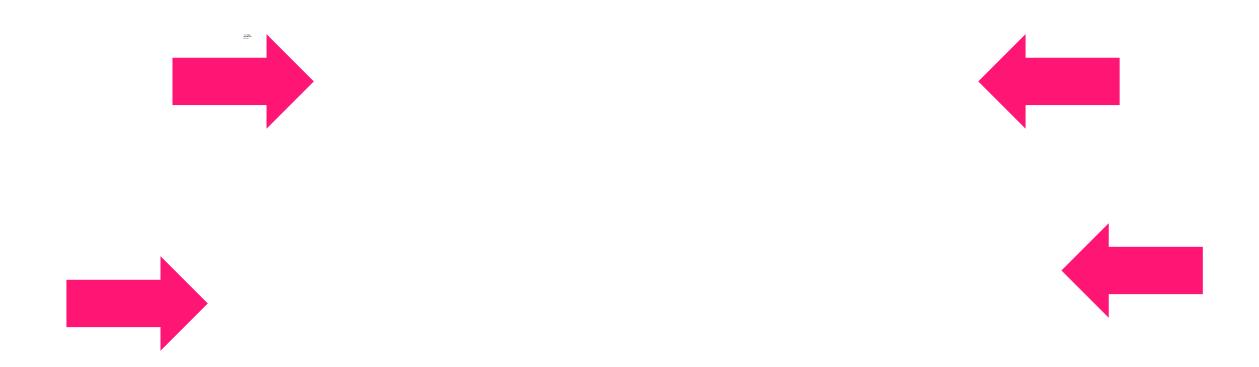


#### **Façade Structure**



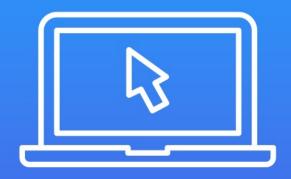


## **Façade Structure**









Implementing Façade





Shields clients from subsystem details

Reduces the objects to handle

**Promotes weak coupling** 

Vary the subsystem

No change to client code

Clients can still use subsystems directly